ZIMINOV, N.V.; SMIRNOV, Yu.T.; FAZLULLIN, M.I.

Comparative evaluation of various ways of drilling ventilation holes. Uch. zap. SAIGIMSa no.7:241-248 '62. (MIRA 17:2)

1. Sredneaziatskiy nauchno-issledovatel'skiy institut geologii i mineral'nogo syr'ya, Tashkent i Kanimansurskaya geologo-razvedochnaya ekspeditsiya.

S/137/62/000/002/118/1
A060/A101

AUTHORS: Golovin, G. F., Zimin, N. V.

TITLE: Cooling capacity of certain media when using the spray feed to the surface of articles

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 107, abstract 21721 (V sb. "Prom. primemeniye tokov vysokoy chastoty v elektrotermii". Moscow-Leningrad, Mashgiz, 1961, 91 - 101)

TEXT: The cooling capacity of 20 different liquids was studied under conditions of spray cooling. The aim was to choose a medium such as would ensure conditions approaching the conditions of cooling in an oil vat. On the basis of the results of the investigation the conclusion is drawn that the most acceptable cooling medium which may be applied in spray form is the water solution of polyvinyl alcohol at a concentration of 0.05 - 0.1%. This solution ensures a moderately rapid cooling in the region of pearlitic transformation, but sufficient to prevent the decomposition of the austenite in that region; simultaneously at 300°C and below the cooling rate approaches the cooling rate in oil. A tendency to

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Cooling capacity of certain media when...

foaming constitutes a drawback of this liquid. NaCl solutions at a temperature up to 90°C may be recommended for hardening articles having simple shapes and fabricated from alloy steels.

A. Babayeva

[Abstracter's note: Complete translation]

Card 2/2

ZIMIN, N.V.

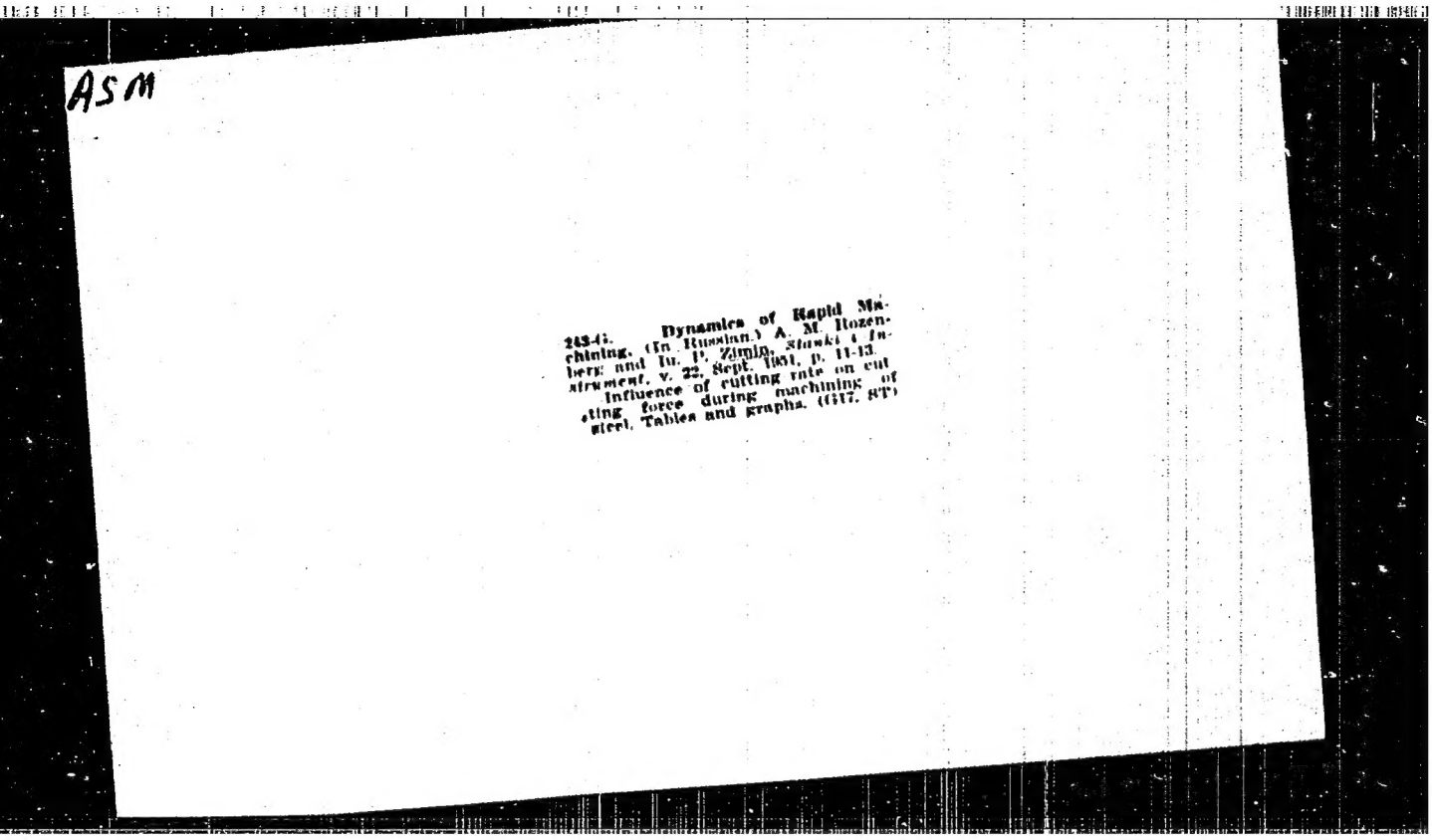
Recovery and beginning of the initial recrystallization during the high-speed heating of L62 brass. Fiz. met. i metalloved. 20 no.2:265-269 Ag '65. (MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tokov vysokoy chastoty imeni B.F.Vologdina.

ZIMIN, N.Ye.

BUSHEN, Boris Nikolayevich, kapitan 2 ranga; ZIMIN, N.Ye.

On the armored train "Dmitry Donskoy." B.N.Bushen. [Corrections and additions by N.E.Zimin]. Mor.sap. 12 no.3:63 D'54. (MLRA 8:2)
(Russia--Revolution, 1917-1921--Personal narratives)



KABLUKOV, D. (gor. Borisoblebsk); VIKTOROV, S. (g. Sorochinsk); ZIMIN, P. (g. Volzhsk).

Correspondence with readers. Tekh. mol. 26 no.12:28 '58.
(MIRA 11:12)
(Oxygen--Industrial applications) (Venus (Planet)) (Nuclear physics)

ZIMIN, P., kand. iskusstvovedeniya.

See the object creatively. Sov. foto 18 no.5:47-48 My '58.
(Photography) (MIRA 11:5)

ZIMIN, P., kand.iskusstvovedeniya

Forming frames in stereoscopic photography. Sov.foto. 19 no.1:9-10 Ja '59. (MIRA 12:3)
(Photography, Stereoscopic)

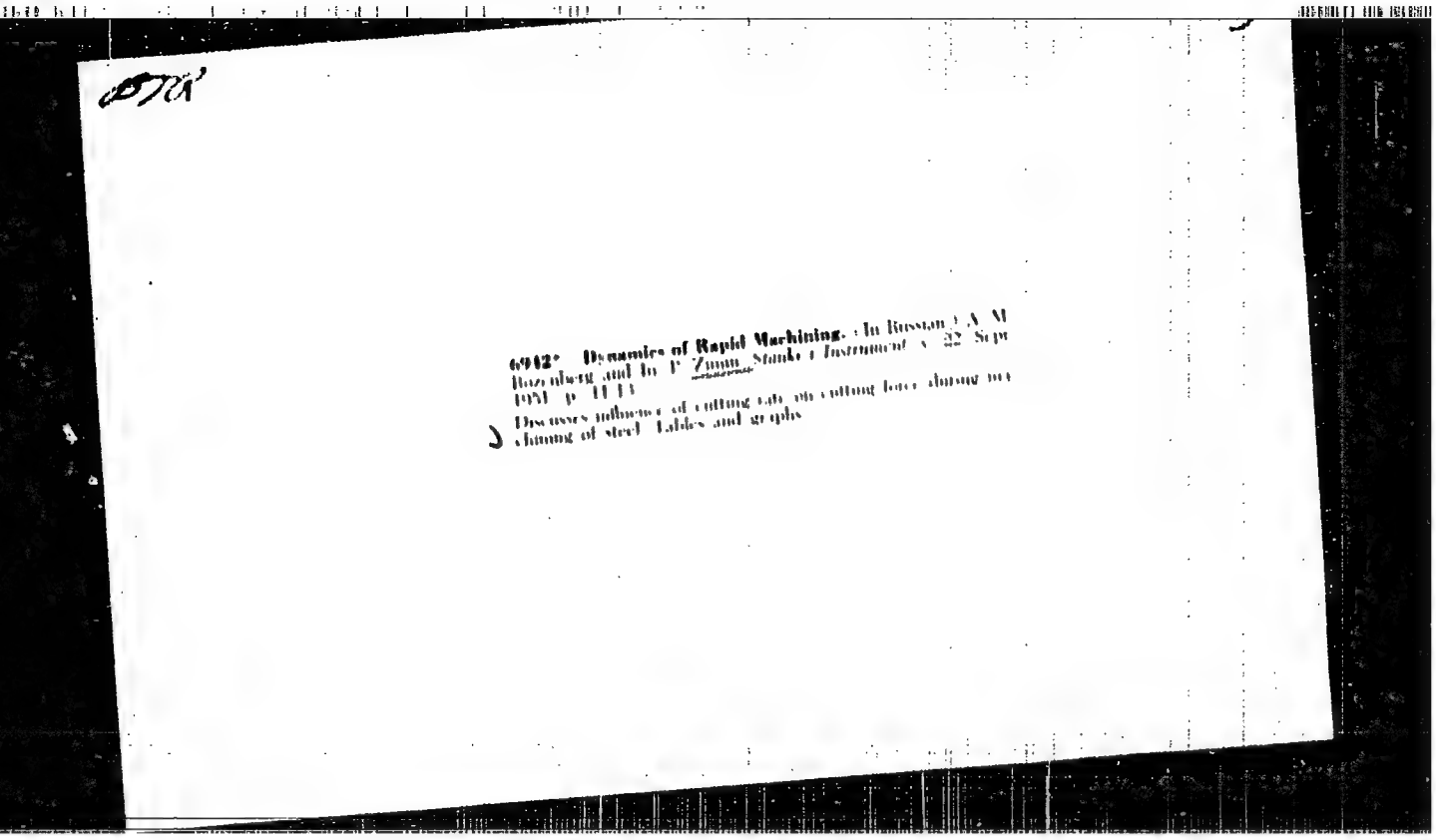
ZIMIN, P., kandidat tekhnicheskikh nauk.

Transporting wall-building materials on pallets. Mekh.stroi. 12 no.1:26-30 Ja '55. (MLRA 8:3)
(Building materials--Transportation)

ZIHIN, P. [redacted]

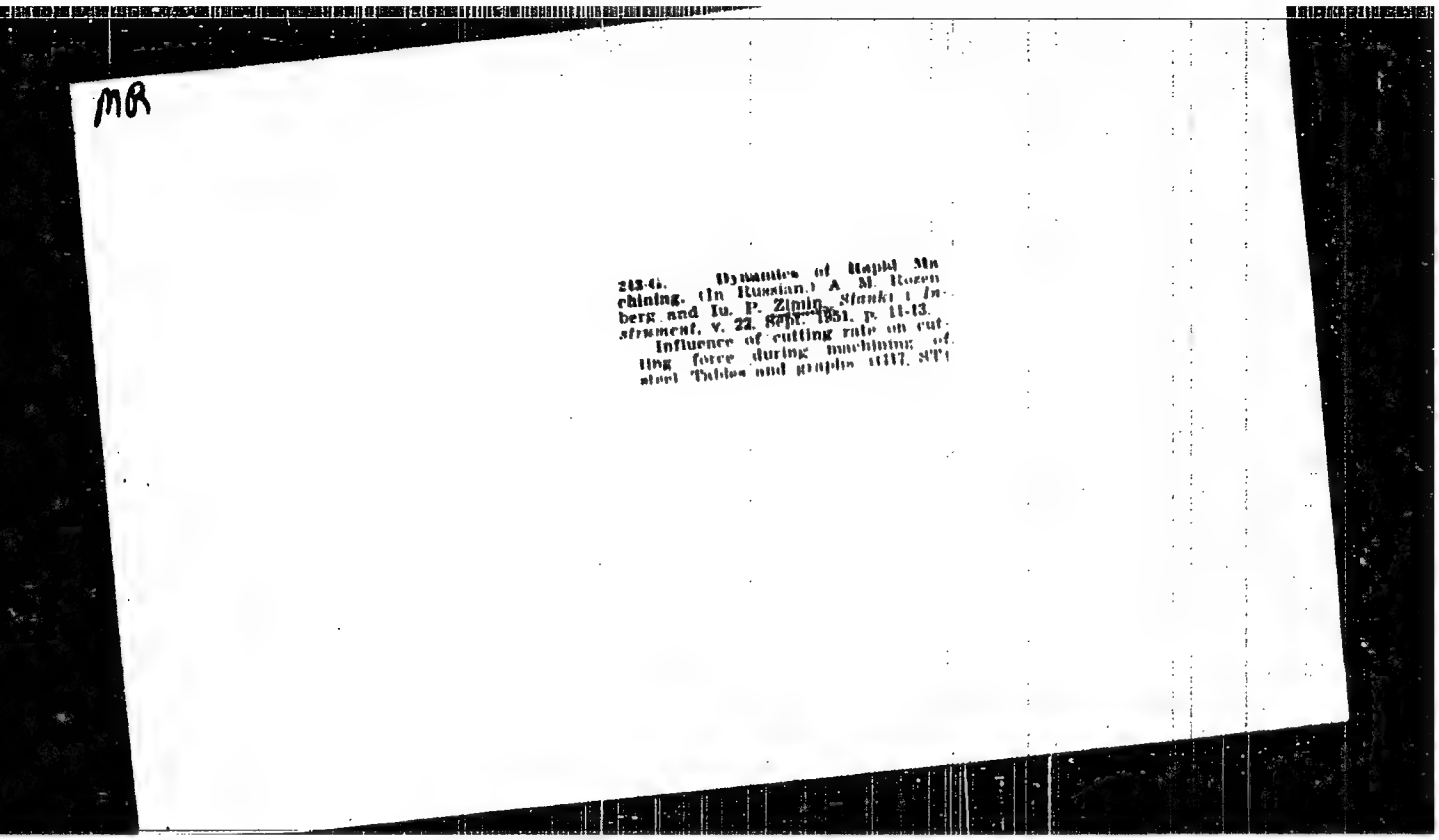
Let us revive amateur stereoscopic photography. Sov.foto 17 no.2:42-44 F '57. (MLRA 10:7)

(Photography, Stereoscopic)



6912* **Dynamics of Rapid Machining.** : In Russian : A M Rozenberg and In P Zinin. Stanki i Instrument v 32 Sept 1961 p 11-13

Discusses influence of cutting rate on cutting force during turning of steel. Tables and graphs



MR

243-61. Dynamics of Rapid Machining. (In Russian.) A. M. Rozenberg and Iu. P. Zimin. *Stanki i instrument*, v. 22, Sept. 1951. p. 11-13.

Influence of cutting rate on cutting force during machining of steel. Tables and graphs. 4117. SPI

ZIMIN, P. A.

USSR/Engineering
Construction Equipment
Cranes, Floating

Feb 1948

"Floating Crane with Lifting Capacity of 100 Tons,"
P. A. Zimin, Candidate Tech Sci, 2 p

"Mekh Stroitel'" No 2

Gives technical data on floating crane tested by Ministry of Construction of War and Naval Enterprises. In test on construction of hydrotechnical installations, certain basic deficiencies discovered in its construction: lack of anchor in stern of pontoon, insufficient power of screws and Diesel generator, and weak construction of deck.

51210

ZIMIN, P. A., ed.

Reference book for the mechanic at a construction site. Moskva, Gos. izd-vo lit-ry po stroitel'stvu i arkhitekture, 1952. 488 p. (53-16775)

TH148.Z5

ZIMIN, P.A., kandidat tekhnicheskiy nauk, redaktor; NEPOMNYASHCHAYA, T.F., redaktor; TOKER, A.M., tekhnicheskiy redaktor

[Performances of construction cranes] Proizvoditel'nost' stroitel'nykh kranov. Moskva, Gos. izd-vo lit-ry stroit. i arkhitekture, 1954. 87 p. (MLRA 8:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut organizatsii i mekhanizatsii stroitel'stva.
(Cranes, derricks, etc.)

ZIMIN, Petr Aleksandrovich, kandidat tekhnicheskikh nauk; TUSHNYAKOV, M.D., redaktor; MEPOMNYASHCHAYA, T.Q., redaktor; MEDVEDEVA, L.Ya., tekhnicheskiy redaktor.

[Mechanizing the transportation of wall materials for construction work] Mekhanizirovannaia dostavka stenovykh materialov v stroitel'stve. Moskva, Gos. izd-vo lit-ry po stroit. i architekture, 1955. 197 p. (MLRA 9:4)

(Building materials--Transportation)

ZIMIN, P.A., kandidat tekhnicheskikh nauk, redaktor; BEGAK, B.A., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[Over-all mechanization in construction] Kompleksnaia mekhanizatsiia stroitel'nykh rabot. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture. Vol. 1 [Loading, unloading and transportation work; a manual] Pogruzochno-razgruzochnye i transportnye raboty; spravochnoe posobie. 1955. 280 p.(MLRA 8:12)

1. Moscow. Vsesoyuznyy nauchno--issledovatel'skiy institut organizatsii i mekhanizatsii stroitel'stva.
(Loading and unloading)

ZIMIN, P.A., kandidat tekhnicheskikh nauk, redaktor; SLEZNIKOV, G.I., inzhener, redaktor; BEGAK, B. A., redaktor; MEDVEDEV, L.Ya., tekhnicheskiy redaktor.

[Handbook for mechanics at construction projects] Spravochnik mekhanika stroitel'nogo uchastka. Izd.2-oe, perer.i dop. Moskva, Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1955. 478 p.
(Construction industry--Handbooks, manuals, etc.)

ZIMIN, P.A., kandidat tekhnicheskikh nauk; PETRIKOVSKIY, S.Kh., inzhener.

Pallet transport of bricks by the railroads and mixed transport lines. Mekh.trud.rab.10 no.4:17-20 Ap '56. (MLRA 9:7)
(Bricks--Transportation)

ZIMIN, P.A., kandidat tekhnicheskikh nauk.

The BK-5-195 building erection crane. Mekh.stroi.13 no.4:15-18 Ap '56. (Cranes, derricks, etc.) (MLRA 9:7)

ZIMIN, P.A., inzhener; VERZHBITSKIY, K.I., inzhener; KARPUKHIN, S.S., inzhener.

Equipment for making and mounting brick blocks. Biul.stroi.tekh. 13 no.5:13-16 My '56. (MLRA 9:8)

1. Nauchno-issledovatel'skiy institut po stroitel'stvu.
(Bricks) (Biulding blocks)

ZIMIN, PETR ALEKSANDROVICH

ZIMIN, Petr Aleksandrovich, kand.tekhn.nauk; TYAPKIN, B.G., red.izd-va; GUSEVA, S.S., tekhn.red.

[Mechanization of construction work; brief survey of developments during the last 40 years] Mekhanizatsiia stroitel'stva; kratkii obzor razvitiia za 40 let. Moskva, Gos.izd-vo lit-ry po stroit.i arkhit., 1957. 90 p. (MIRA 11:1)

(Construction industry)

SOV/ 100-11-2-9

AUTHOR: Zimin, P.A.,) Candidates of Technical
Kazarinov, V.M.,) Sciences

TITLE: Transportation, Assembly, Scraping and Levelling Works and their Mechanization. (Mekhanizatsiya pod"—yem no-transportnykh, montazhnykh i pogruzochno-razgruzochnykh rabot).

PERIODICAL: Mekhanizatsiya Stroitel'stva, 1957, Nr.11, pp.6-14, USSR.

ABSTRACT: Progress made in the mechanization of the above-mentioned work since 1917 is described. Figure 1 illustrates conveyer belts (15m long) used for the transportation of concrete mix. In 1928 building cranes with 1-ton to 1.25-ton capacity were used (see Figure 2). By 1931 the production of cranes had rapidly increased with the introduction of assembly building methods. Figure 3 shows a timber construction for a bridge crane, used for assembly purposes. From 1930 onwards great progress was made in the design and construction of assembly cranes for the building industry. The first mobile pneumatic suction machine for the unloading of cement from railway trucks

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Transportation, Assembly, Scraping and Levelling Works and their Mechanization.

was constructed by the factory imeni Shevchenko in Khar'kov in 1936. Between 1931 and 1940 the amount of mechanical handling in Russia was increased from 1.2% to 4%. When the Moscow motor factory imeni Likhachev was built, the crane DIP (0.25-ton capacity) designed by engineers A.B. Dorf and V.A. Ivanov, was used. In the years 1938/40, production began on various new types of lifting, transporting and levelling machines, e.g. lorry-mounted cranes with 3-ton capacity, steam-driven track cranes of 20-ton capacity, and railway cranes with a capacity of 45 tons. The efficiency of these building machines increased steadily, e.g. during assembly of the blast furnace at the Azovstal' factory, pre-cast elements, weighing 20 tons, were assembled, and a bridge, weighing 100 tons, was lifted in one piece. After the second world war the output of building machines was steadily increased. During 1946/50 more than 400 new prototypes were constructed in factories in Minstroydormash. Further expansion was effected during the fifth 5-year plan, when 435 prototypes were made. In 1940, 1,135 cranes were available for building

Transportation, Assembly, Scraping and Levelling Works and their Mechanization.

construction. This number increased in 1955 to 26,830. Table No.1 shows the various types of excavating machines produced and their corresponding capacities. Table Nr 2 gives the pre-war and post-war output of cranes. The following prototypes of cranes were constructed: BKSM-2P BKSM-4P BKSM-14P. Figure 5 illustrates a bridge crane widely used for assembly work. Recently, a universal excavator crane of 10-ton capacity (E-656 -see Figure 6) was constructed. The factory imeni "Yanvarskoye vosstaniye" is manufacturing lorry-mounted cranes, pneumatic tyre mounted cranes of 3, 5 and 10-ton capacity (see Figure 7), and cranes of 10-25-ton capacity (see Figure 8). Figure 9 illustrates excavating machine PZ/240. A number of machines have been constructed for unloading railway trucks, e.g. T-182/A. Figure 10 illustrates self-loading trucks for the transportation of cement. Figure 11 illustrates lorry-mounted Crane 4008. There are eleven figures and two tables.

1. Construction equipment--Design 2. Construction equipment--Production

Card 3/3

ZIMIN, P.A.

KARPUKHIN, S.S.; ZIMIN, P.A.

An all-purpose grip for the lifting and installation of large blocks. Mekh.trud.rab. 11 no.8:36-37 Ag '57. (MIRA 10:11)
(Hoisting machinery) (Building blocks)

ZIMIN, P.A., kandidat tekhnicheskikh nauk.

Unloading machinery designed by Sh. Khabibulin. Mov.tekh.i pered.op. v stroi.19 no.1:16 Ja '57. (MLRA 10:2)

(Loading and unloading) (Khabibulin, Sh.S.)

ZIMIN, P.A., kandidat tekhnicheskikh nauk; USAKOVSKIY, M.Sh., inzhener.

Crated transport of bricks. Zhel.dor.transp. 39 no.2:77 F '57.
(Bricks--Transportation) (MLRA 10:3)

AUTHOR: Zimin, P.A., Candidate of Technical Sciences 100-58-2-3/9

TITLE: The Development of Mechanization of Loading, Transportation and Unloading of Building Materials. (Razvitiye mekhanizatsii pogruzki, transportirovaniya i vygruzki stroymaterialov)

PERIODICAL: Mekhanizatsiya Stroitel'stva, 1958, Nr 2, Pp 14-19.

ABSTRACT: A description of various transporting machines for building materials constructed since the All-Union Congress of Builders held in 1954 is given. Tipping lorries ZIL-585 with a capacity of 3½ tons and MAZ-205 with a capacity of 5 tons, are used for the transportation of building materials. Tipping lorries YaAZ-210Ye with a capacity of 10 tons and MAZ-525 with a capacity of 25 tons, are used in connection with the construction of large power stations and industrial buildings. The Minsk factory is manufacturing tippers with a capacity of 40 tons. Figure 1 illustrates a tipping lorry with a capacity of 3½ tons which, like MAZ-506 (6-ton capacity) is of Russian manufacture. The Glavmosavtotrans uses tipping lorry ZIL-585 and trailers U2-AP-3 with hydraulically operated tipping mechanism. At present the Minsk factory is con-

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The Development of Mechanization of Loading, Transportation and Unloading of Building Materials.

structing tipping lorries with capacities of 5 and 10 tons with the tipping container situated in front (Figure 3). In 1958 the Minsk factory constructed tow-lorries driven by diesel engines of 100-165 h.p. The NIIOMS of the Academy of Building and Architecture of USSR, in conjunction with Ul'yanovsk Motor Factory manufactured a similar tipping container as an attachment to lorry GAZ-69. The Khar'kov factory for road-building machines constructed a trailer-tipper of 17m^3 capacity for attachment to tractor S-80. Figure 4 illustrates articulated trailer with 30-ton capacity attached to a tow-lorry YaAZ-210 manufactured by Glavleningradstroy At the end of the 5th 5-year plan a standard scraper, T-182, came into production. During 1955 /57 two types of mobile rail-mounted machines were constructed, one PZ-240 for unloading building materials from open railway trucks, has a bucket conveyer belt combined with an ordinary conveyer belt. It is manufactured by the Glavstroy-mekhanizatsiya of the Ministry of Building of RSFSR. It is elevated to allow railway trucks to pass under. The weight of this machine is 18 tons and output 200-250

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tons per hour (Figure 5). The other machine was constructed by Sh.S. Khabibulin. It has synchronised bucket conveyer belts and is also elevated. This machine weighs 31 tons and has a capacity of 500 tons per hour. The DNIIStroydormash is engaged on the design of a tower crane with a hydraulically operated grub attached to the end of the rod. This machine is also used for unloading materials from railway trucks. Figure 6 illustrates excavator manufactured by the firm "Alman" with the grub connected to an arm. This is much more efficient than the alternative of fixing the grub to cables. During 1955/57 numerous loading machines for building materials were manufactured in the USSR, e.g. loader 4,008, provided with a grub of 2.8m^3 capacity (Figure 7). Single-bucket loader, D-380, with a capacity of 0.4m^3 is illustrated in Figure 8. A hydraulically operated attachable bucket of 0.15m^3 capacity can be attached to excavator E-153 mounted on "Belarus'" chassis. . This attachment allows for the handling of sand and gravel. The single bucket loader D-388, on tractor D-54, has a capacity of 0.8m^3. This capacity could be increased to

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1.5m^3 (Figure 9). In 1958, loaders, with a bucket situated at the back of tractor S-100, were constructed; also attachable loading equipment to tractor DT-40. Another multi-bucket loader, T-166, was manufactured. This has tyred wheels, inclined bucket conveyer and ordinary conveyer belt. It is used to transport building materials to the size of 100mm. The "Udarnik" factory began the production of multi-bucket loaders, D-353, mounted on track undercarriage with attached conveyer belt for loading into lorries or railway trucks. Loader type PSG-100 is of continuous action; it is track mounted and has attached conveyer belt. In 1955/57 the Leningrad branch of the VNIIStroydormash designed a pneumatic installation for the transportation of free cement into silos up to the height of 22m. Similar installations, S-347 and S-362A were modified. The Glavstroymekhanizatsiya of the Ministry of Building of RSFSR constructed a 'worm' conveyer, RP-4. The output of this conveyer is 25-tons per hour. A similar conveyer, S-400, was constructed by the Leningrad branch of Vniistroydormash and was tested

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The Development of Mechanization of Loading, Transportation and Unloading of Building Materials.

at Kuybyshevgidrostroy by A.Ya.Inyakin. Cement carrier, S-386, was also constructed by the afore-mentioned factory and lorry YaAZ-210 was used as a base, (Figure 10). In 1958 cement carriers (semi-trailers) with a capacity of 1,400 litres were designed as an attachment to lorries MAZ-200B. There are 10 figures and one table.

Card 5/5

1. Construction--USSR 2. Construction equipment--Design
3. Materials--Handling

SOKOLOV, K.M.; YEVSTAF'YEV, S.V.; ROSTOTSKIY, V.K.; GRECHIN, N.K.; STANKOVSKIY, A.P.; BAUMAN, V.A.; BERKMAN, I.L.; BORODACHEV, I.P.; BOYKO, A.G.; VALUTSKIY, I.I.; VATSSLAVSKAYA, L.Ya.; VOL'FSON, A.V.; DOMBROVSKIY, N.G.; YEGNUS, M.Ya.; YEFREMENKO, V.P.; ZIMIN, P.A.; IVANOV, V.A.; KOZLOVSKIY, A.A.; KOSTIN, M.I.; KRIMERMAN, M.N.; LINEVA, M.S.; MERENKOV, A.S.; MIROPOL'SKAYA, N.K.; PETROV, G.D.; RYBROV, A.S.; ROGOVSKIY, L.V.; SMIRNOV, G.Ya.; SHAFRANSKIY, V.N.; SHIMANOVICH, S.V.; SHNEYDER, V.A.

Evgenii Richardovich Peters; obituary; Mekh. stroi. 15 no.1:3 of cover Ja '58. (MIRA 11:1)

(Peters, Evgenii Richardovich, 1892-1957)

ZIMIN, P.A., kand. tekhn. nauk.

Expansion of mechanized loading, transporting, and unloading of building materials. Mekh. stroi. 15 no.2:14-19 F '58. (MIRA 11:3)
(Building materials--Transportation)
(Loading and unloading)

POLYAKOV, Vladimir Ivanovich, kand.tekhn.nauk; ZIMIN, P.A., nauchnyy red.; POPOKHED, E.G., red.; DORODNOVA, L.A., tekhn.red.

[Modern methods for moving building cranes] Sovremennye sposoby perebazirovaniia stroitel'nykh kranov. Moskva, Vses.uchebno-pedagog.izd-vo Trudreservizdat, 1959. 189 p.

(MIRA 14:2)

(Cranes, derricks, etc.)

ZIMIN, P.A.

SOKOLOV, K.M. YEVSTAFEYEV, S.V.; ROSTOTSKIY, V.K.; STANKOVSKIY, A.P.; VARENIK, Ye.I.; ONUFRIYEV, I.A.; SVESHNIKOV, I.P.; URHOV, B.S.; BAUMAN, V.A.; BARSOV, I.P.; BASHINSKIY, S.V.; BOYKO, A.G.; VALUTSKIY, I.I.; ZAPOL'SKIY, V.P.; ZOTOV, V.P.; IVANOV, V.A.; KAZARINOV, V.M.; LEVI, S.S.; MALOLETKOV, Ye.K.; MERENKOV, A.S.; MIROPOL'SKAYA, N.K.; OSIPOV, L.G.; PEREL'MAN, L.M.; PETROV, G.D.; PETROV, N.M.; POLYAKOV, V.I.; VATSSLAVSKAYA, L.Ya.; VAKHRAMEYEV, S.A.; VERZHITSKIY, A.M.; VLASOV, P.A.; VOL'FSON, A.V.; VOSHCHININ, A.I.; DZHUNKOVSKIY, N.N.; DOMBROVSKIY, N.G.; YEPIFANOV, S.P.; YEFREMENKO, V.P.; ZELICHENOK, G.G.; ZIMIN, P.A.; POPOVA, N.T.; ROGOVSKIY, L.V.; REBROV, A.S.; SAFRYKIN, V.A.; SOVALOV, I.G.; SOSHIN, A.V.; STARUKHIN, N.M.; SURENYAN, G.S.; TOLOKAYA, D.F.; TROITSKIY, Kh.L.; TUSHNYAKOV, M.D.; FROLOV, P.T.; TSIRKUNOV, I.P.

Andrei Vladimirovich Konorov; obituary. Mekh. stroi. 16 no.1:32 Ja '59. (MIRA 12:1)

(Konorov, Andrei Vladimirovich, 1890-1958)

ZIMIN, P.A., kand.tekhn.nauk

Cranes for assembling operations. Mov.tekh.mont.i spets.rab.v stroi. 21 no.9:10-15 S '59. (MIRA 12:11)

1. Nauchno-issledovatel'skiy institut no.200 (NII-200) Ministerstva stroitel'stva RSFSR.
(Cranes, derricks, etc.)

YEPIFANOV, Semen Pavlovich, kand.tekhn.nauk; POLYAKOV, Vladimir Ivanovich, kand.tekhn.nauk; AL'PEROVICH, Arkadiy Il'ich, inzh.; ZIMIN, P.A., kand.tekhn.nauk, nauchnyy red.; TELINGATER, L.A., red.; DOROFEYEVA, L.A., tekhn.red.

[Tower crane operator] Mashinist bashennykh kranov. Izd.2., perer. i dop. Moskva, Vses.uchebno-pedagog.izd-vo Proftekhizdat, 1960. 491 p. (MIRA 14:1)
(Cranes, derricks, etc.)

BRAUN, D.A., dotsent, kand.tekhn.nauk; VAYNSON, A.A., kand.tekhn.nauk; DZHUNKOVSKIY, N.N., dotsent; ZIMIN, P.A., kand.tekhn.nauk; VERDNIKOV, G.V., nauchnyy red.; KRYUGER, Yu.V., red.izd-va; EL'KINA, E.M., tekhn.red.

[Manual for building machinery operators] Spravochnik mekhanika po ekspluatatsii stroitel'nykh mashin. Pod red. P.A.Zimina. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 567 p. (MIRA 13:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. (Building machinery—Maintenance and repair)

ZIMIN, P.A., kand.tekhn.nauk; IDASHKIN, V.I., inzh.

Conference on the improvement of construction elements and the performance of building and assembling cranes. Mekh.stroi. 17 no.3:26-28 Mr '60. (MIRA 13:6)
(Cranes, derricks, etc.)
(Precast concrete construction)

ZIMIN, P.A., kand.tekhn.nauk

New assembling cranes. Mont.i spets.rab.v stroi. 22 no.6:9-15 Je '60. (MIRA 13:7)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.
(Cranes, derricks, etc.)

BODUNGEN, I.N., inzh.; VINOGRADOV, K.V., inzh.; VELLERSHTEYN, A.L., inzh.; GOL'DGOF, B.G., inzh.; KUZ'MIN, V.S., inzh.; KULIKOV, P.S., inzh.; LEBEDEV, N.N., inzh.; LEVI, S.S., kand.tekhn.nauk; NOZANOV, M.S., inzh.; SIDOROV, V.N., inzh.; SOKOLOV, D.V., inzh.; SLOMIM, M.M., inzh., laureat Stalinskoy premii; EPSHTEYN, A.L., inzh.; ANTRUSHIN, B.D., inzh., nauchnyy red.; SIMAKOV, S.N., inzh., nauchnyy red.; TRUBIN, V.A., glavnyy red.; SOSHIN, A.V., zam.glavnogo red.; GRINEVICH, G.P., red.; EPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; ZIMIN, P.A., red.; VDOVENKO, Z.I., red.izd-va; SHIROKOVA, G.M., red.izd-va; EL'KINA, E.M., tekhn.red.

[Power engineering handbook for construction work] Spravochnik energetika na stroitel'stve. Izd.2., perer. i dop. Pod red. N.N. Lebedeva. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1960. 736 p. (MIRA 13:11)
(Power engineering)

BONDAR', Ye.P., inzh.; VLASOVA, M.A., inzh.; KALININ, B.P., inzh.; KOPT, L.M., inzh.; SOKOLOVA, A.D., kand.tekhn.nauk; TSEGEL'SKIY, V.L., inzh.; UTENKOV, V.F., kand.tekhn.nauk [deceased]; BOGDANOV, S.I., inzh., nauchnyy red.; TROBIN, V.A., glavnyy red.; SOSHIN, A.V., zam.glavnogo red.; GRINEVICH, G.P., red.; YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIGIN, P.A., red.; SKVORTSOVA, I.P., red.izd-va; GOL'BERG, T.M., tekhn.red.; EL'KINA, E.M., tekhn.red.

[Handbook for the erection of reinforced-concrete elements of industrial buildings] Spravochnik po montazhu zhelezobetonnykh konstruktsii promyshlennykh zdanii. Pod red. B.P.Kalinina. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 315 p. (MIRA 14:3)

1. Moscow. Gosudarstvennyy institut po proyektirovaniyu stal'nykh konstruktsiy. (Reinforced concrete construction)

BARANOV, L.A.; GORBATOV, V.I.; YEVREINOV, D.V.; YERMAKOV, Ye.I.; PITERSKOV, N.I.; RYL'TSEV, A.M.; RYAZANTSEV, K.G.; TOROPOV, A.S.; TSEYTLIN, G.I.; YAROSHEV, D.M.; TRUBIN, V.A., glavnyy red.; SOSHIN, A.V., zam.glavnogo red.; RAKITIN, G.A., red.; GRINEVICH, G.B., red.; YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A., red.; TABUNINA, M.A., red.izd-va; OSENKO, L.M., tekhn.red.

[Manual on accident prevention and industrial sanitation during construction and repair operations] Spravochnoe posobie po tekhnike bezopasnosti i promsanitarii pri proizvodstve stroitel'no-montazhnykh rabot. Pod red. G.A.Rakitina. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1961. 359 p.
(MIRA 14:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
(Construction industry--Hygienic aspects)

ROGOVSKIY, L.V., inzh.; CHERKASHIN, V.A., kand.tekhn.nauk, starshiy nauchnyy sotrudnik; GORBANEV, V.P.; TRUBIN, V.A., glavnyy red.; SOSHIN, A.V., zam.glavnogo red.; GRINEVICH, G.P., red.; YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A., red.; YUDINA, L.A., red.izd-va; RYAZANOV, P.Ye., tekhn.red.; GOL'BERG, T.M., tekhn.red.

[Earthwork operations under winter conditions] Proizvodstvo zemlianykh rabot v zimnikh usloviiakh; spravochnoe posobie. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1961. 149 p. (MIRA 14:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. 2. Rukovoditel' laboratorii zemlyanykh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Rogovskiy). 3. Laboratoriya zemlyanykh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Cherkashin). 4. Starshiy tekhnik laboratorii zemlyanykh rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu (for Gorbanev).

(Earthwork--Cold weather conditions)

MANDRIK,P.E., inzh.;ZIMIN,P.A., kand.tekhn.nauk, nauchnyy red.; KRO-MOSHCH,I.L., red.izd-va; BOROVNEV,N.K., tekhn.red.

[Textbook for the mechanic (on the construction site)] Posobie dlia mekhanika stroitel'nogo uchastka. Moskva, Gos.izd-vo lit-ry po stroit., arkhit.i stroit.materialam, 1961. 264 p. (MIRA 14:5)

(Building machinery)

STARUKHIN, N.M., inzh.; BOGATYKH, Ya.D., inzh.; TRUBIN, V.A., glav. red.; SOSHIN, A.V., zam. glav. red.; GRINEVICH, G.P., red.p YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A., red.; TSYURUPA, A.L., inzh., nauchnyy red.; GORDEYEV, P.A., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

[Handbook on masonry operations] Spravochnik po kamennym rabotam. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 198 p. (MIRA 14:10)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu. (Masonry)

GRIGOR'YANTS, A.S.; GLADSHTEYN, D.A.; LANTSBURG, Ya.B.; TRUBIN, V.A., glav. red.; SOSHIN, A.V., zam. glav. red.; GRINEVICH, G.P., red.; YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red. ZIMIN, P.A., red.; KANTSEL', Ya.O., nauchnyy red.; SHIROKOVA, G.M., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

[Handbook on the consumption of spare parts and materials in operating and repairing building and road machinery] Spravochnik po raskhodu zapasnykh chastei i materialov dlia ekspluatatsii i remonta stroitel'nykh i dorozhnykh mashin. Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. materialam, 1961. 399 p. (MIRA 14:10)
(Building machinery--Maintenance and repair)
(Road machinery--Maintenance and repair)

ZIMIN, P.A., kand.tekhn.nauk

Determining the level of over-all mechanization in assembly operations.
Mont. i spets. rab. v stroi. 23 no.4:19-24 Ap '61. (MIRA 14:5)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.
(Construction industry)

REBROV, A.S., inzh. [deceased]; USPENSKIY, V.P., inzh.; PLESHKOV, D.I., kand. tekhn. nauk; BELEN'KIY, V.I., inzh.; BERNADSKIY, G.I., inzh.; VALUTSKIY, I.I., inzh.; BAZANOV, A.F., kand. tekhn. nauk; KOGAN, I.Ya., kand. tekhn. nauk; RATNER, A.I.; VOROB'YEV, A.A., inzh.; BAUMAN, V.A., kand. tekhn. nauk; NOSENKO, N.Ye., kand. tekhn. nauk; FOKIN, M.V., inzh. [deceased]; VINOGRADOV, G.V., inzh.; GUSAKOV, M.A., inzh.; SUDAKOVICH, D.I., inzh.; Prinimali uchastiye: SIGAL',Ya.Ye., inzh.; TITOV, M.A., inzh.; OGIYEVICH, V.Ya., kand. tekhn. nauk; ZIMIN, P.A., kand. tekhn. nauk, retsenzent; LAPIR, F.A., inzh., retsenzent; PETROV, N.M., kand. tekhn. nauk, retsenzent; RYAKHIN, V.A., kand. tekhn. nauk, retsenzent; KHOLIN, N.A., inzh., retsenzent

[Construction machinery; a reference manual] Stroitel'nye mashiny; spravochnik. Izd.3., perer. i dop. Moskva, Mashinostroenie, 1965. 788 p. (MIRA 18:6)

ZIMIN, P.A., kand.tekhn.nauk

Choosing the parameters of assembly cranes. Mekh. stroi. 19 no.10:14-17 O '62. (MIRA 15:12)
(Cranes, derricks, etc.)

ZIMIN, P.A., kand.tekhn.nauk; SHCHEPET'YEV, A.I., inzh.

For further mechanization and use of prefabrication techniques in assembly work. Mekh. stroi. 19 no.10:1-2 O '62. (MIRA 15:12)
(Construction equipment)

ZIMIN, P.A., kand.tekhn.nauk

Ways to develop the mechanization of machine assembly work. Mont. i spets.rab. v stroi. 24 no.12:7-10 D '62. (MIRA 15:12)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.
(Machinery--Erecting work)

IVYANSKIY, G.B., kand. tekhn. nauk; POLYAKOV, V.I., kand. tekhn.nauk; RAYPENBERG, S.M., inzh.; CHEREPAKHIN, N.V., inzh.; PROSKURNINA, V.P., red.; TRUBIN, V.A., glav. red.; SOSHIN, A.V., zam. glav. red.; GRINEVICH, G.P., red.; YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A., red.; PEREVALYUK, M.V., red. izd-va; NAUMOVA, G.D., tekhn. red.

[Erection of completely precast apartment houses]Montazh polnosborrykh zhilykh zdanii; spravochnoe posobie. Pod red. V.P. Proskurnina. Moskva, Gosstroiizdat, 1962. 94 p.
(MIRA 15:11)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stvu.
(Apartment houses) (Precast concrete construction)

ZIMIN, P.A., kand.tekhn.nauk

Conference on the problems of over-all mechanization of loading and unloading operations. Mekh. stroi. 18 no. 3:30-31 Mr '61. (MIRA 14:5)

1. Nauchno-issledovatel'skiy institut stroitel'noy promyshlennosti.
(Loading and unloading)

GEL'MAN, A.S.; GRINEVICH, G.P., prof.; GRINEVICH, G.G.; ZOTOV, V.P.; KOMAROV, G.V.; PAVLOV, S.M.; FIRMON, A.V.; TRUBIN, V.A., glav. red.; SOSHIN, A.V., zam. glav. red.; YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.; KHOKHLOV, B.A., red.; ZIMIN, P.A., red.; KRONOSHCH, I.L., inzh., red.; NAUMOVA, G.D., tekhn. red.

[Handbook on loading, unloading, and conveying operations in construction] Sptavochnik po pogruzochno-razgruzochnym i transportnym rabotam na stroitel'stve. Pod red. G.P.Grinevicha. Moskva, Gosstroiizdat, 1962. 376 p. (MIRA 15:9)
(Material handling) (Building materials)

ZIMIN, P.N.; PISARNITSKAYA, A.M.; VISH, I.M.; MAKSIMENKO, V.I.; SAMORODOVA, A.I.

Immediate results of tissue therapy in psychic disorders. Zh. nevropat. psikhiat., Moskva 52 no.1:47-48 Jan 52. (CLML 21:5)

1. Of Tambov Oblast Psychoneurological Hospital (Head Physician--A.M. Pisarnitskaya).

LANTODUB, Yu.Ye., kandidat meditsinskikh nauk.; ZIMIN, P.N.

Dispensary care of patients with gastric diseases. Sov. zdrav. 15 no.1:38-42 Ja-F '56. (MLRA 9:6)

1. Iz Ukrainskogo rentgeno-radiologicheskogo i onkologicheskogo instituta (dir.-dotsent Ye.A. Bazlov)

(STOMACH, dis.
ther., in dispensaries in Russia)
(OUTPATIENT SERVICE, in various dis.
stomach dis.)

ZIMIN, P. P.

USSR/Engineering - Construction, Mechanization 1/ Mar 52

"Practice of Implanting Complex Mechanization of Operations in Construction of Machine Building Enterprises," P. P. Zimin, Cand Tech Sci

"Byul Stroitel Tekh" No 5, pp 7-10

Discusses briefly mechanized operations and equipment in the field of earthwork, piling and house building at construction projects of Minmashstroy. Operation of sinking caissons is entirely mechanized resulting in considerable conservation of labor and time. In addition to steam hammer, vibration mechanisms were used for driving steel piles during construction of Tsimlyanskaya hydroelec station. 213T53

ZIMIN, R.

Spare parts for garage equipment are needed. Avt.transp. 40 no.5:54 My '62. (MIRA 15:5)

1. Nachal'nik avtoremontnoy masterskoy Ivanovskogo oblastnogo avtotresta.

(Garages--Equipment and supplies)

VINDERGAUZ, M.S.; GOL'BERT, K.A.; ZIMIN, R.A.

Hardened polyester resin as a stationary phase in gas chromatography. Khim.i tekh.topl.i masel 7 no.4:69-72 Ap '62. (MIRA 15:4)

1. Kuybyshevskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta sinteticheskikh smol.
(Resins, Synthetic) (Gas chromatography)

ROGINSKIY, S.Z.; ZIMIN, R.A.; YANOVSKIY, M.I.

Selective oxidizing dehydrogenation studied by pulse chromatographic method. Dokl. AN SSSR 164 no.1:144-146 S '65.
(MIRA 18:9)

1. Institut khimicheskoy fiziki AN SSSR. 2. Chlen-korrespondent AN SSSR (for Roginskiy).

VIGDERGAUZ, M.S.; GOL'BERT, K.A.; AFANAS'YEV, M.I.; MASHUKOVA, G.A.; ZIMIN, R.A.

Analysis of liquid products of pyrolysis and cracking by gas chromatography. Neftekhimiia 2 no.3:405-409 My-Je '62. (MIRA 15:8)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.
(Petroleum products) (Gas chromatography)

VIGDERGAUZ, M.S.; GOL'BERT, K.A.; ZIMIN, R.A.; GORSHUNOV, O.L.

Gas chromatographic analysis of the products of isobutane oxidation. Neftekhimiia 2 no.3:410-414 My-Je '62. (MIRA 15:8)

1. Nauchno-issledovatel'skiy institut sinteticheskikh spirtov i organicheskikh produktov, Novokuybyshevskiy filial.
(Propane) (Gas chromatography)

YANOVSKIY, M.I.; GAZIYEV, G.A.; NIKIFOROV, V.P.; MAKARENKO, V.G.; ZIMIN, R.A.; MARININ, P.I.; FRANK, Yu.A.

Gas chromatograph with automatic pickup of samples from a flow. Zav. lab. 31 no. 12:1526-1528 '65 (MIRA 19:1)

1. Institut khimicheskoy fiziki AN SSSR.

ZIMIN, R.A.

S/032/62/028/002/001/037
B101/B110

AUTHORS: Vigdergauz, M. S., Gol'bert, K. A., Savina, I. M., Afanas'yev, M. I., Zimin, R. A., and Bakhareva, N. I.

TITLE: Chromatographic analysis of microimpurities consisting of acetylene and diene compounds in complex hydrocarbon mixtures

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 2, 1962, 149 - 150

TEXT: A report is given on a method of chromatographic determination of acetylene, propane diene, methyl acetylene, divinyl, and ethyl acetylene for the purpose of controlling the purification process of pyrogas or the propane-propylene fraction. The analysis was conducted with an experimental model of the KhTW-2 (KhTP-2) chromatograph which was provided with a detector for heat of combustion. Air served as carrier gas. Among the known sorbents, none was found which permitted the determination of the peaks of the dienes and alkynes to be ascertained. A system consisting of two 3 m long columns, diameter 4 mm, was, therefore, chosen. The first column was filled with Inza brick powder (0.25 - 0.50 mm) soaked with 25% diisobutyl phthalate. This column permitted the separation of hydrogen

Card 1/3

S/032/62/028/002/001/037
B101/B110

Chromatographic analysis of...

+ methane; ethane + ethylene; acetylene, propane, propylene, isobutane, propadiene, n-butane, isobutene + 1-butene + methyl acetylene; 2-butene, divinyl + ethyl acetylene. The second column was filled with brick powder soaked with 30% Sulfolane. It permitted the separation of methyl acetylene, divinyl, and ethyl acetylene. Operation is conducted first with column 1, and after passage of the propadiene peak, the columns are connected in series until the butane peak has passed. After this, the following substances are eluted from column 1 directly into the detector: 2-butene, divinyl, and ethyl acetylene. Subsequently, column 2 is reconnected, and separate elution of isobutene + 1-butene, and methyl acetylene takes place. To prevent burning through of the detector, the circuit must be switched off during elution of H_2, C_2H_6, C_2H_4, and C_3H_6.

When determining the content of divinyl and ethyl acetylene, the columns are connected in series after the peak methyl acetylene + isobutene + 1-butene. The accuracy of the analysis is 10^{-3}%. The mean deviation with pyrogas is: 2% for acetylene; 6% for methyl acetylene; 15% for propadiene; 3% for divinyl; with the ethane-ethylene fraction: 3% for acetylene; 23% for propadiene. The apparatus was calibrated by means of synthetic mixtures. There are 1 figure and 1 table.

Card 2/3

S/032/62/028/002/001/037
B101/B110

Chromatographic analysis of...

ASSOCIATION: Novokuybyshevskiy filial instituta sinteticheskikh spirtov i organicheskikh produktov (Novokuybyshevsk Branch of the Institute of Synthetic Alcohols and Organic Products)

Card 3/3

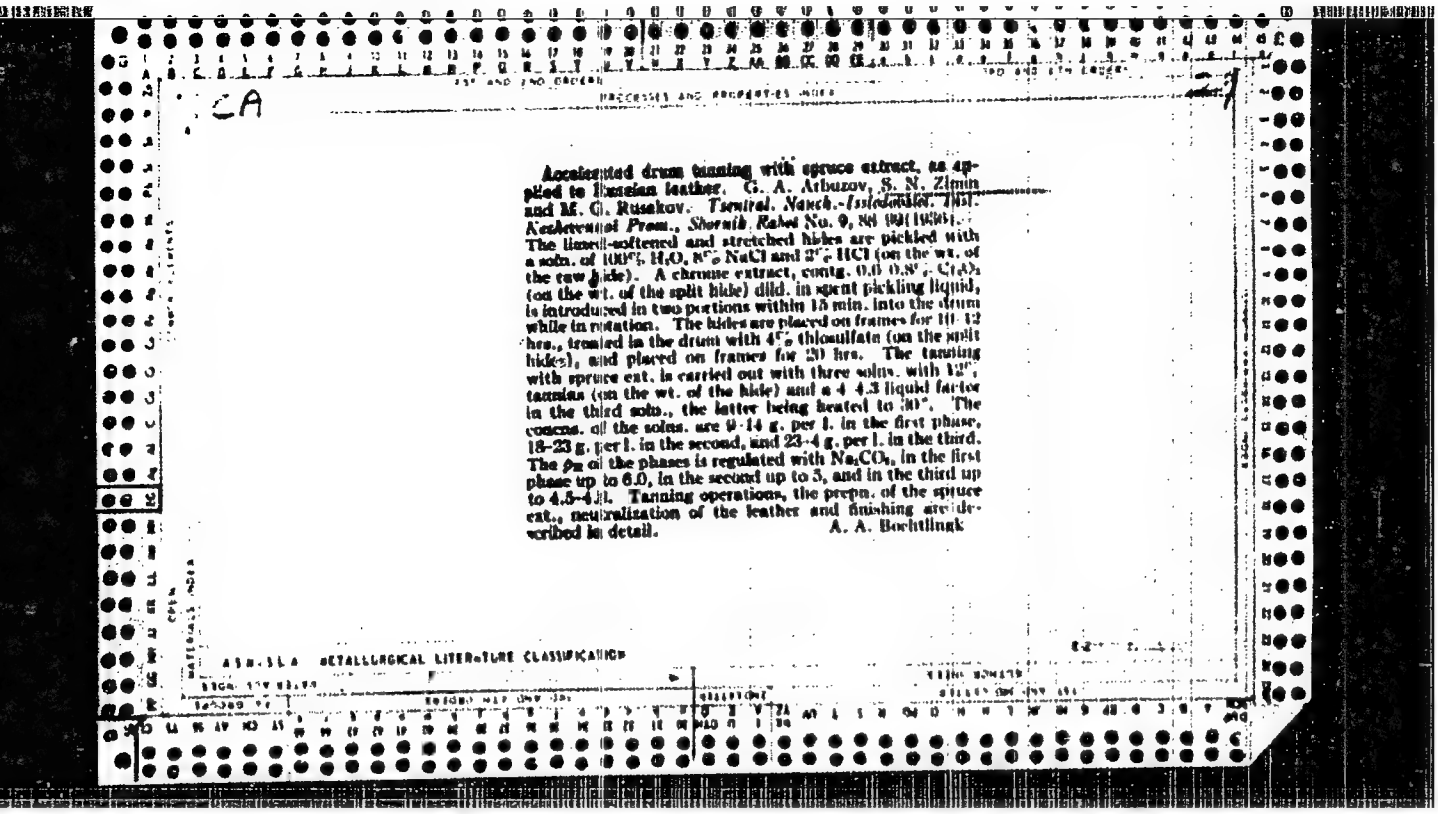
VIGDERGAUZ, M.S.; GOL'BERT, K.A.; SAVINA, I.M.; AFANAS'YEV, M.I.; ZIMIN, R.A.; BAKHAREVA, N.I.

Chromatographic analysis of microimpurities of acetylene and diene compounds in complex hydrocarbon mixtures. Zav.lab. 28 no.2:149-150 '62. (MIRA 15:3)

1. Novokuybyshevskiy filial instituta sinteticheskikh spirtov i organicheskikh produktov.
(Acetylene compounds) (Olefins)
(Chromatographic analysis)

ZIMIN, S., inzh.

Utilization of the maximum capacity of equipment. Energ. stroi. no.33:87-88 '64. (MIRA 17:8)



CA

Accelerated drum tanning with spruce extract, as applied to Russian leather. G. A. Arbuzov, S. N. Zimin and M. G. Rusakov. *Tsentral. Nauch.-Issledovatel. Inst. Kozhevennoi Prom., Shornik Rabot* No. 9, 88-99(1936). The limed-softened and stretched hides are pickled with a soln. of 100% H_2O, 8% NaCl and 2% HCl (on the wt. of the raw hide). A chrome extract, contg. 0.0-0.8% Cr_2O_3 (on the wt. of the split hide) dild. in spent pickling liquid, is introduced in two portions within 15 min. into the drum while in rotation. The hides are placed on frames for 10-12 hrs., treated in the drum with 4% thiosulfate (on the split hides), and placed on frames for 20 hrs. The tanning with spruce ext. is carried out with three solns. with 12% tannins (on the wt. of the hide) and a 4-4.3 liquid factor in the third soln., the latter being heated to 30°. The concns. of the solns. are 9-14 g. per l. in the first phase, 18-23 g. per l. in the second, and 23-4 g. per l. in the third. The p_H of the phases is regulated with Na_2CO_3, in the first phase up to 6.0, in the second up to 5, and in the third up to 4.5-4.8. Tanning operations, the prepn. of the spruce ext., neutralization of the leather and finishing are described in detail.

A. A. Boehtlingk

KEDRIN, Ye.A., kand.tekhn.nauk; SUVOROVA, Ye.Ye., kand.tekhn.nauk; ZIMIN, S.N., kand.tekhn.nauk

Abrasion resistance characteristics of lining leather. Izv.vys.ucheb.zav.,tekh.leg.prom. no.2:68-72 '62. (MIRA 15:5)

1. Moskovskiy Ordena Trudovogo Krasnogo Znameni institut narodnogo khozyaystva imeni Plekhanova. Rekomendovana kafedroy tovarovedeniya promyshlennykh tovarov.
(Leather--Testing)

ZIMIN, S.S.

Some characteristics of the composition and genesis of chromites.
Geol. i geofiz. no.4:103-113 '65. (MIRA 18:8)

1. Dal'nevostochnyy geologicheskiy institut Sibirskogo otdeleniya AN SSSR, g. Vladivostok.

ZIMIN, S.S.

Composition and paragenesis of chromespinellids in ultrabasic rocks. Geol.i geofiz. no.10:46-57 '63. (MIRA 17:1)

1. Dal'nevostochnyy geologicheskiy institut, Vladivostok.

ZIMIN, S.S

POSPELOV, G.L., starshiy nauchnyy sotrudnik; LAPIN, S.S.; BELOUS, N.Kh.; KLYAROVSKIY, V.M.; KINE, O.G.; VAKHRUSHEV, V.A.; SHAPIRO, I.S., starshiy nauchnyy sotrudnik; KALUGIN, A.S.; MUKHIN, A.S.; GARNETS, N.A.; SPEYT, Yu.A.; SELIVESTROVA, M.I.; RUTKEVICH, V.G.; BYKOV, G.P.; NIKONOV, N.I.; SAKOVICH, K.G.; MEDVEDKOV, V.I.; ALADYSHKIN, A.S.; PAN, F.Ya.; RUSANOV, M.G.; YAZBUTIS, E.A.; ROZHDESTVENSKIY, Yu.V.; SAVITSKIY, G.Ye.; PRODANCHUK, A.D.; LYSENKO, P.A.; LEBEDEV, T.I.; KAMENSKAYA, T.Ya.; MASLENNIKOV, A.I.; PIPAR, R.; DODIN, A.L.; MITROPOL'SKIY, A.S.; LUKIN, V.A.; ZIMIN, S.S.; KOREL', V.G.; DERBIKOV, I.V.; BARDIN, I.P., akademik, nauchnyy red.; GORBACHEV, T.F., nauchnyy red.; YEROFEYEV, N.A., nauchnyy red.; NEKRASOV, N.N., nauchnyy red.; SKOBNIKOV, M.L., nauchnyy red.; SMIRNOV-VERIN, S.S., nauchnyy red. [deceased]; STRUMILIN, S.G., akademik, nauchnyy red.; KHLEBNIKOV, V.B., nauchnyy red.; CHINAKAL, N.A., nauchnyy red.; SLEDZYUK, P.Ye., red.toma; SOKOLOV, G.A., red.toma; BOLDYREV, G.P., red.; VOGMAN, D.A., red.; KASATKIN, P.F., red.; KUDASHEVA, I.G., red.izd-va; KUZ'MIN, I.F., tekhn.red.

[Iron-ore deposits of the Altai-Sayan region] Zhelezorudnye mestorozhdeniia Altae-Saianskoi gornoi oblasti. Vol.1. Book 1. [Geology]

(Continued on next card)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065210011-3"

POSPELOV, G.L.---(Continued) Card 2.

Geologiia. Otvetstvennyi red. I.P. Bardin. Moskva. 1958. 330 p. (MIRA 12:2)

1. Akademiya nauk SSSR. Mezhduvedomstvennaya postoyannaya komissiya po zhelezu. 2. Postoyannaya mezhduvedomstvennaya komissiya po zhelezu Akademii nauk SSSR (for Pospelov, Shapiro, Sokolov). 3. Zapadno-Sibirskiy filial Akademii nauk SSSR (for Vakhrushev, Pospelov.) 4. Zapadno-Sibirskoye geologicheskoye upravleniye (for Sakovich). 5. Krasnoyarskoye geologicheskoye upravleniye (for Pan). 6. Zapadno-Sibirskiy geologo-razvedochnyy trest Chermetrazvedka (for Prodanchuk). 7. Sibirskiy geofizicheskiy trest (for Pipar). 8. Vsesoyuznyy geologicheskiy nauchno-issledovatel'skiy institut (for Dodin). 9. Gornaya ekspeditsiya (for Mitropol'skiy). 10. Gornoye upravleniye Kuznetskogo metallurg.kombinata (for Lukin). 11. Tomskiy politekhnicheskiy institut (for Zimin). 12. Sibirskiy metallurg.institut (for Korel'). 13. Trest Sibneftegeofizika (for Derbikov). (Altai Mountains--Iron ores) (Sayan Mountains--Iron ores)

ZIMIN, V.; GOLUBEV, N. (Manturovo, Kostromskaya oblast'); SERGEYEV, A. (Leningrad); DUSHIN, F.; SOLOV'YEV, P.; NIKIFOROV, M., shofer (Satka, Chelyabinskaya oblast'); BABICH, V.

Readers' letters. Pozh.delo 9 no.5:31 My '63. (MIRA 16:5)

1. Pomoshchnik nachal'nika pozharnoy komandy, pos.Iul'tin (for Zimin). 2. Obshchestvennyy pozharnyy inspektor sovkhoza Vyaznikovskiy, Vladimirskoy obl. (for Dushin). 3. Predsedatel' rayonnogo soveta Dobrovol'nogo pozharnogo obshchestva, Chelyabinsk (for Solov'yev). 4. Uchastkovyy pozharnyy instruktor Yuzhnoy zheleznoy dorogi (for Babich).

(Fire prevention)

ZIMIN, V.

Together with the workshop committee. Sov. profsoiuzy 18 no.4:21-23 F '62. (MIRA 15:3)

1. Profsoyuznyy organizator grupp uchastka sborki tsekha press-maslenok Gor'kovskogo zavoda "Krasnaya Etna".
(Gorkiy—Trade unions)

Zimin, V.A.

118-58-3-3/21

AUTHORS: Murzin, G.A.; Latskiy, V.I.; Zimin, V.A.; Kizler, E.A.; and Sanik, A.Ya., Engineers

TITLE: Machine Tools for the Manufacturing of Mining Supports (Stanki dlya izgotovleniya elementov krepi)

PERIODICAL: Mekhanizatsiya Trudoyemkikh i Tyazhelykh Rabot, 1958, # 3, pp 10-13 (USSR)

ABSTRACT: The Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut mednoy promyshlennosti-unipromed' (Ural Scientific Research and Designing Institute of the Copper Industry) has worked out 2 new types of mining support manufacturing machine tools, the "KZS-1U" and the "KZS-2U". The KZS-1U is a two spindle milling machine capable of producing 120 mining supports per hour, with lengths from 2,300 to 3,000 mm, and diameters from 170 to 250 mm. Two electric motors of the A52-4 type are used to operate the machine; one electric motor of the AOL-22-4 type is used for the conveyor mechanism. The wattage of the electric motors ranges from 7 to 0.4 kw. The dimensions of the machine are 4,180x2,885x1,435 mm, and its weight is 2,622 kg. The test model manufactured by the Kyshtymskiy mekhanicheskiy zavod (Kyshtym Mechanical

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Plant) has shown high working qualities.

The KZS-2U, used to cut vertical props, is a two spindle milling machine. Material handling is automatic, with an output of 30 props per hour. The length of the manufactured props may range from 1,500 to 3,900 mm, and their diameters from 180 to 220 mm. The machine is operated by two 4.5 kw electric motors of the AOL-51-4 type. Two 0.4 kw electric motors of the AOL-22-4 type are used, one each for the moving of carriages and material handling. The dimensions of the milling machine are 10,500x2,140x2,187 mm and its weight is 2,170 kg.

There are 3 graphs.

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LATSKIY, V.I., inzh.; ZIMIN, V.A., inzh.

Equipment for charging deep holes. Bezop.truda v prom. 3 no.9:32-33 S '59. (MIRA 13:2)
(Blasting)

CHUVIN, V.P.; KULIKOV, O.T., inzh.; LADIN, M.N., inzh.; LATSKIY, V.I., inzh.; ZIMIN, V.A., inzh.; LEVCHENKO, K.P., inzh.; LEVIN, S.S., inzh.; SERGEYEV, V.V., inzh.

"Ural-61" boring machine. Gor.zhur. no.2:53-55 F '64.
(MIRA 17:4)

1. Glavnyy instruktor Magnitogorskogo savoda gornogo oborudovaniya (for Chuvin). 2. Nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut gornogo i obogatitel'nogo oborudovaniya, Sverdlovsk (for Latskiy, Zimin, Levchenko, Levin, Sergeyev).

ZIMIN, V. A. (Cand. in Tech. Sci.)

"Reliability of Tubes in Electronic Computing Machines" a paper presented at the Conference on Methods of Development of Soviet Mathematical Machine-Building and Instrument-Building, 12-17 March 1956.

Translation No. 596, 8 Oct 56

ZIMIN, V. A. (Cand. in Tech. Sci.)

"Logical Circuits Employing Pulse Transformers and Semiconductor Diodes" a paper presented at the Conference on Methods of Development of Soviet Mathematical Machine-Building and Instrument-Building, 12-17 March 1956,

Translation No. 596, 8 Oct 56

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ZIMIN V.A.

PHASE I BOOK EXPLOITATION SOV/1174

Nauchno-tekhnicheskoye obshchestvo priborostroitel'noy promyshlennosti

Avtomaticheskoye upravleniye i vychislitel'naya tekhnika; trudy soveshchaniya provedennogo v marte 1957 g. (Automatic Control and Computer Technique; Transactions of a Conference Held in March, 1957) Moscow, Mashgiz, 1958. 494 p. 12,000 copies printed.

Ed.: Solodovnikov, V.V. Doctor of Technical Sciences, Professor; Ed. of Publishing House: Konovalov, G.M.; Tech. Ed.: El'kind, V.D.; Managing Ed. for Literature on Machine Building and Instrument Making: (Mashgiz): Pokrovskiy, N.V., Engineer.

PURPOSE: The book is intended for scientific personnel and engineers working with computers and automatic control.

COVERAGE: The book is a collection of 24 articles presented at a conference called by the Scientific and Technical Society of the Instrument Manufacturing Industry in March, 1957. The conference considered problems of the construction and application of computer equipment for the automatic control of industrial processes. The articles discuss problems of analysis

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and synthesis of computers and automatic control systems. They also describe the principles of construction and design of the newest components of these systems. The articles present specific examples of the application of computer technique to the calculation and design of automatic control systems and the automation of industrial processes. M.I. Zborovskiy, Engineer, is mentioned in connection with arranging the conference. Engineers I.M. Rusevich and L.I. Shorol' helped in preparing the collection. References appear after each article.

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Kuzin, L.T., Candidate of Technical Sciences. Application of Z-Transformation to the Analysis of Control Systems Using Computers 46

Kazakevich, V.V., Professor, Doctor of Technical Sciences. Optimalizing Control Systems and Some Methods for Improving Their Stability 69

Mamonov, Ye.I., Candidate of Technical Sciences. Comparative Characteristics of Automatic Digital Computers 97

Gutenmakher, L.I., Professor, Doctor of Technical Sciences, Avrukh, M.I., Engineer, Vissonova, I.A., Engineer, Mokhel', L.L., Engineer, and Khol'sheva, A.F., Engineer. Contactless Magnetic Devices for Control Systems 113

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Mamonov, Ye.I., Candidate of Technical Sciences, and Sharapov, Yu.I., Engineer. Applications of Semiconductor Devices in Computer Technique 175

Zimin, V.A., Candidate of Technical Sciences. Logical Circuits of Calculating Machines Using Semiconductor Devices 204

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Rakov, G.K., Engineer. Deriving a Random Quantity by Means of High-speed Computers 485

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ZIMIN, V.A.

9(2) PHASE I BOOK EXPLOITATION SOV/1722

Nadezhnost' radioelektronnoy apparatury; sbornik statey (Reliability of Electronic Equipment; Collection of Articles) Moscow, Izd-vo "Sovetskoye radio," 1958. 144 p. Number of copies printed not given.

Compiler: I.V. Grushin; Ed.: V.G. Masharova; Tech. Ed.: A.A. Svashnikov.

PURPOSE: The book may be useful to engineering personnel working with electronic equipment.

COVERAGE: The authors discuss the necessity of determining the reliability of component elements of various electronic systems and describe methods of calculating the probability of faults in trigger circuits, amplifiers, rectifiers, and other vacuum-tube devices. No personalities are mentioned. References appear at the end of all but one article.

TABLE OF CONTENTS:

Zimin, V.A. Reliability of Operation of Standard Elements of the High-speed Electronic Computer (BESM) 3
The author explains methods of checking computer operation and discusses

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Reliability of Electronic (Cont.)

the reliability of operation of such standard elements as trigger circuits, pulse-forming circuits, pulse rectifiers, phase inverters, cathode followers, diodes, and amplifiers with pulse delay. There are 3 references, all Soviet.

Zimin, V.A. Life of Vacuum Tubes in Elements of the High-speed Electronic Computer (BESM) 27

The author discusses the results of studying the reliability of computer vacuum tubes at the USSR Academy of Sciences in 1952-1954. He also explains the stability of tube parameters, operating conditions, and tube life. There are 2 references, both Soviet.

Sinitsa, M.A. Problems of Using Stand-by Radio Electronic Equipment 40

The author describes methods of reserving and connecting stand-by equipment, and presents a mathematical analysis of probabilities of faults and discusses the effectiveness of using stand-by equipment. There are 5 references, 3 of which are Soviet [including 2 translations], and 2 English.

Levitin, S.M. Underheating and Noise Parameters as Indices of Gradual Impairment of Tube Characteristics 75
The author studies static tube characteristics under conditions of underheating and explains the effect of noise on operation and life of vacuum tubes. A discussion of a system for testing vacuum tubes is also presented. There are 4 references, all Soviet.

Kuznetsov, S.M. Criterion and Method of Evaluating Reliability of Components of Radio Electronic Systems 92
The author presents a mathematical analysis of the reliability criterion and describes methods of evaluating the reliability of electronic system components. He also discusses the disadvantages of such a method. There are 17 references, all Soviet [including 2 translations].

Druzhinin, G.V. Methods of Calculating System Reliability 116
The author explains analytical and graphical methods of calculating reliability of electronic system components. There are 5 references, 3 of which are Soviet, and 2 English.

Reliability of Electronic (Cont.) SOV/1722

Babenko, A.A. Reliability Parameters of Electronic Equipment 131
The author discusses the probability of the occurrence of faults in electronic equipment and explains the necessity of determining the reliability of various components. There are no references.

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Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 20, p 110 (USSR)

AUTHOR: Zimin, V.A.

TITLE: Principles of Designing Mathematical Control Machines on the Basis of Universal High-Speed Digital Computers

PERIODICAL: V sb. : Avtomat, upravleniye i vychisl. tekhn. Moscow, Mashgiz, 1958, pp 29-45

ABSTRACT: The principles of operation of synchronous and asynchronous computers are briefly analyzed. In spite of relative complexity of calculation and of initial adjustment the synchronous machines based on pulse circuits are more effective than the asynchronous ones based on static circuits. The trends in development of control machines are discussed. Efforts to substitute electronic tubes with semiconductor elements and the difficulties faced are noted. It is pointed out that the use of ferrite cores in circuits of high-speed computers leads to an increased power consumption. The problems of reliability are discussed. The results of 22 months' observations of the standard elements of a

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Principles of Designing Mathematical Control Machines on the Basis of Universal High-Speed Digital Computers

BESM machine are cited. On the basis of data published on a semiconductor "TRA-DIK" machine it is maintained that transistors are only a few times more reliable than tubes. The application of semiconductor diodes in computers is discussed. The programming device of the BESM is taken as an example to show that the use of diodes simplifies the circuit and increases the reliability of operation. Foreign machines for control of real objects are briefly reviewed. 4 illustrations, 10 references.

V.M.P.

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PHASE I BOOK EXPLOITATION SOV/5990

Zimin, Viktor Aleksandrovich

Elektronnyye vychislitel'nyye mashiny; osnovy teorii, raschota i primeneniya (Electronic Computers; Basic Theory, Design, and Application) Moscow, Mashgiz, 1962. Errata slip inserted. 21,000 copies printed.

Reviewers: G. K. Barabanova, Engineer, G. M. Zhdanov, Doctor of Technical Sciences, O. I. Rogacheva, Engineer, Ye. T. Semenova, Engineer, A. G. Shigin, Candidate of Technical Sciences; Ed.: S. L. Martens, Engineer; Tech. Ed.: B. I. Model', Managing Ed. for Literature on Instrument Construction and Means of Automatization: N. V. Pokrovskiy, Engineer.

PURPOSE: This book is intended for engineers and technicians concerned with the design and operation of high-speed computers. It may also be useful to students of related specialties in schools of higher education.

COVERAGE: The book gives fundamentals of the theory, calculation, and application of high-speed digital computers and makes recommendations on their design. Questions on the design and operation of these computers are answered. Attention is

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also given to digital electronic elements, tubes, transistorized and ferrite core electronic-function units, basic problems of the structure of high-speed digital computers, and methods of insuring their reliability. The electronic circuits described were tested on BESM, IBM-704, URAL, TKh-2, and BIZMAK computers. No personalities are mentioned. There are 31 references: 23 Soviet (including 2 translations), and 8 English.

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